

1999 NATA Refinement

Regional Air Pollution Control
Agency

Dayton, Ohio

1999 NATA Refinement

- Improve HAP Inventory
- Model
- Monitor

Nonpoint (area) sources to point sources

- Gasoline dispensing facilities and bulk terminals/plants (**Benzene**)
- Perchloroethylene dry cleaners
(**Tetrachloroethene**)
- Halogenated solvent facilities
(**Methylene chloride,**
Tetrachloroethene, Trichloroethene)

18,826 records later...

	Benzene	Methylene Chloride	Trichloro- ethylene	Perchloro- ethylene
tons/year	before	after	before	after
Nonpoint	28	27	86	83
Point	2	5	8	12
Onroad	369	369	0	0
Nonroad	94	94	0	0
TOTAL	493	495	94	95

ISCST3 Dispersion Modeling

- GDF – Area source type
- Bulk Terminal/Plant – Point source type
- Dry Cleaner – Point source type
- Halsol Facility – Volume source type

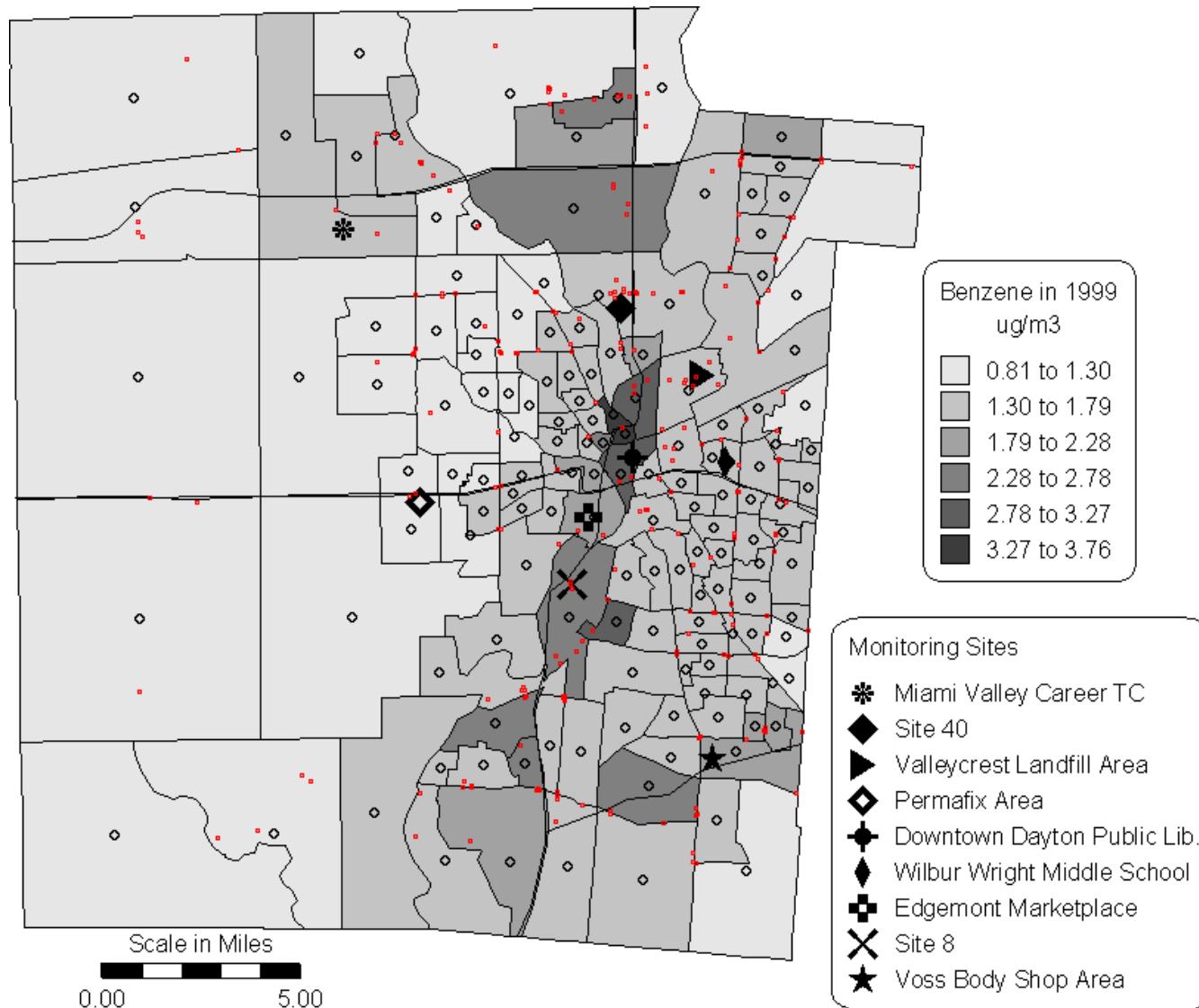
“National Background” Concentrations

- Benzene = 0.48 ug/m³
- Methylene Chloride = 0.15 ug/m³
- Tetrachloroethene = 0.14 ug/m³
- Trichloroethene = 0.08 ug/m³

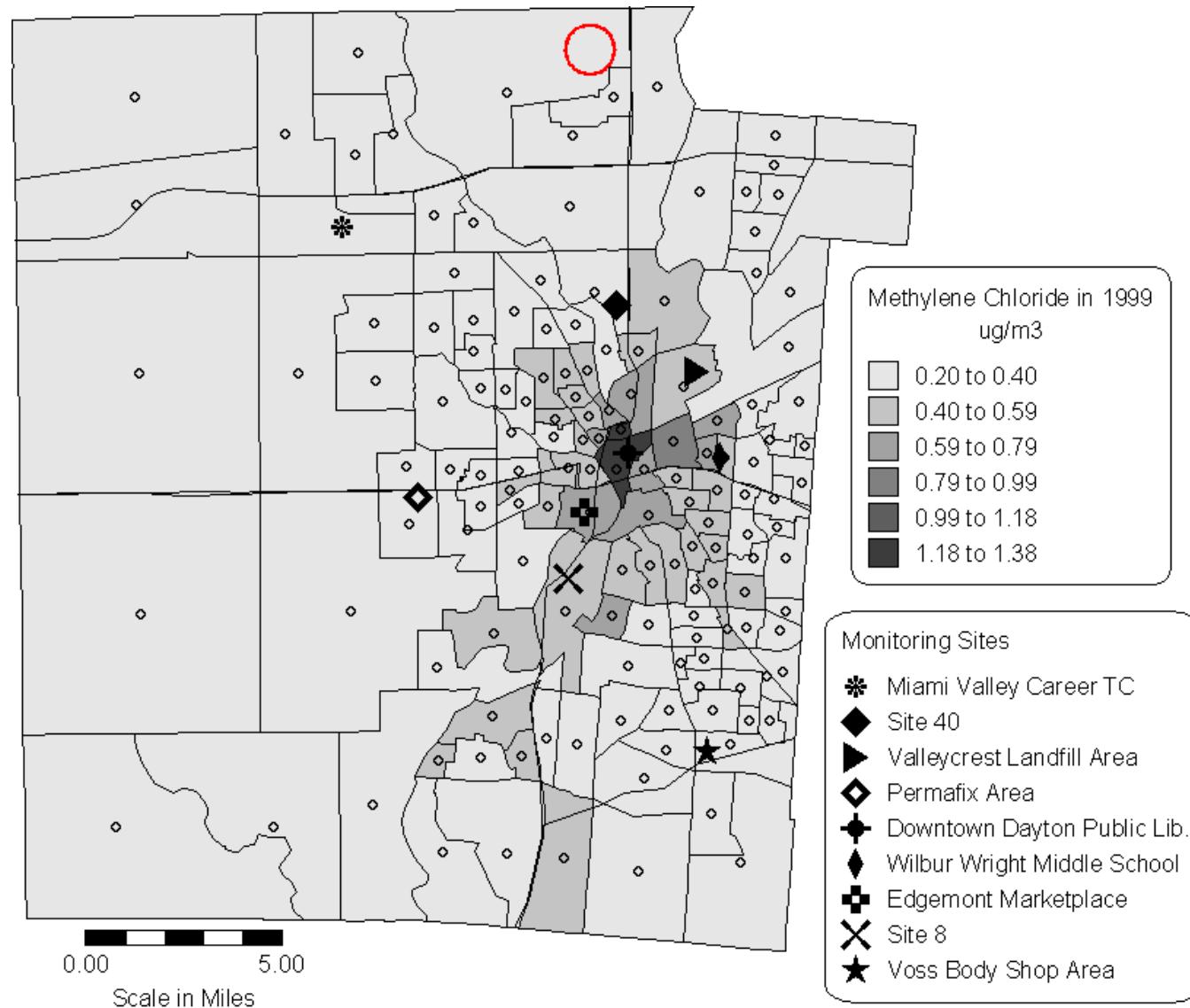
Impact Circle Diameters

GDF (Benzene)	125 m
Bulk Terminal/Plant (Benzene)	200 m
Dry Cleaner (Tetrachloroethene)	700 m
Halsol Facility (Methylene Chloride, Tetrachloroethene, Trichloroethene)	800 m – 3800 m

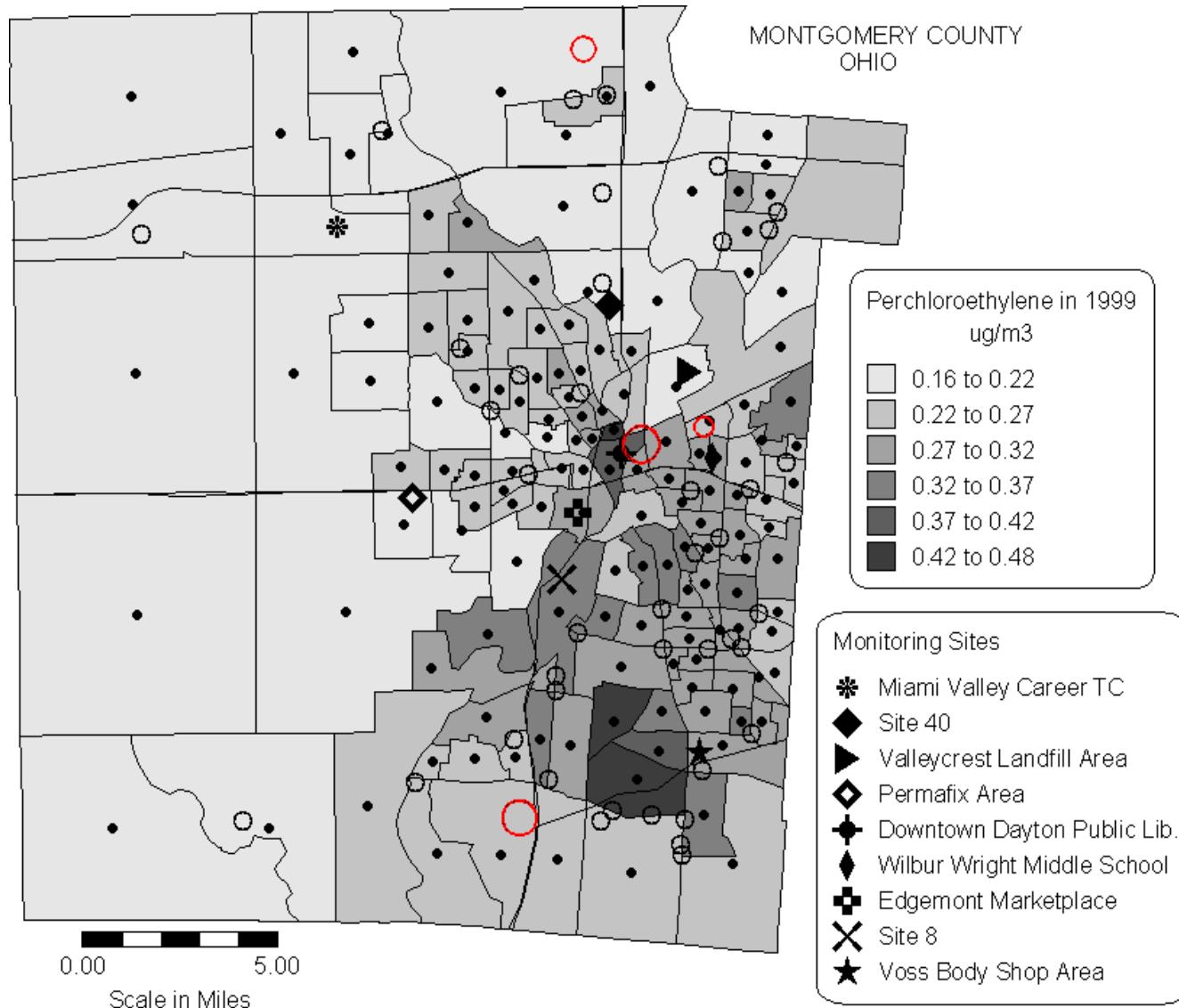
Benzene, 1999 draft v.3



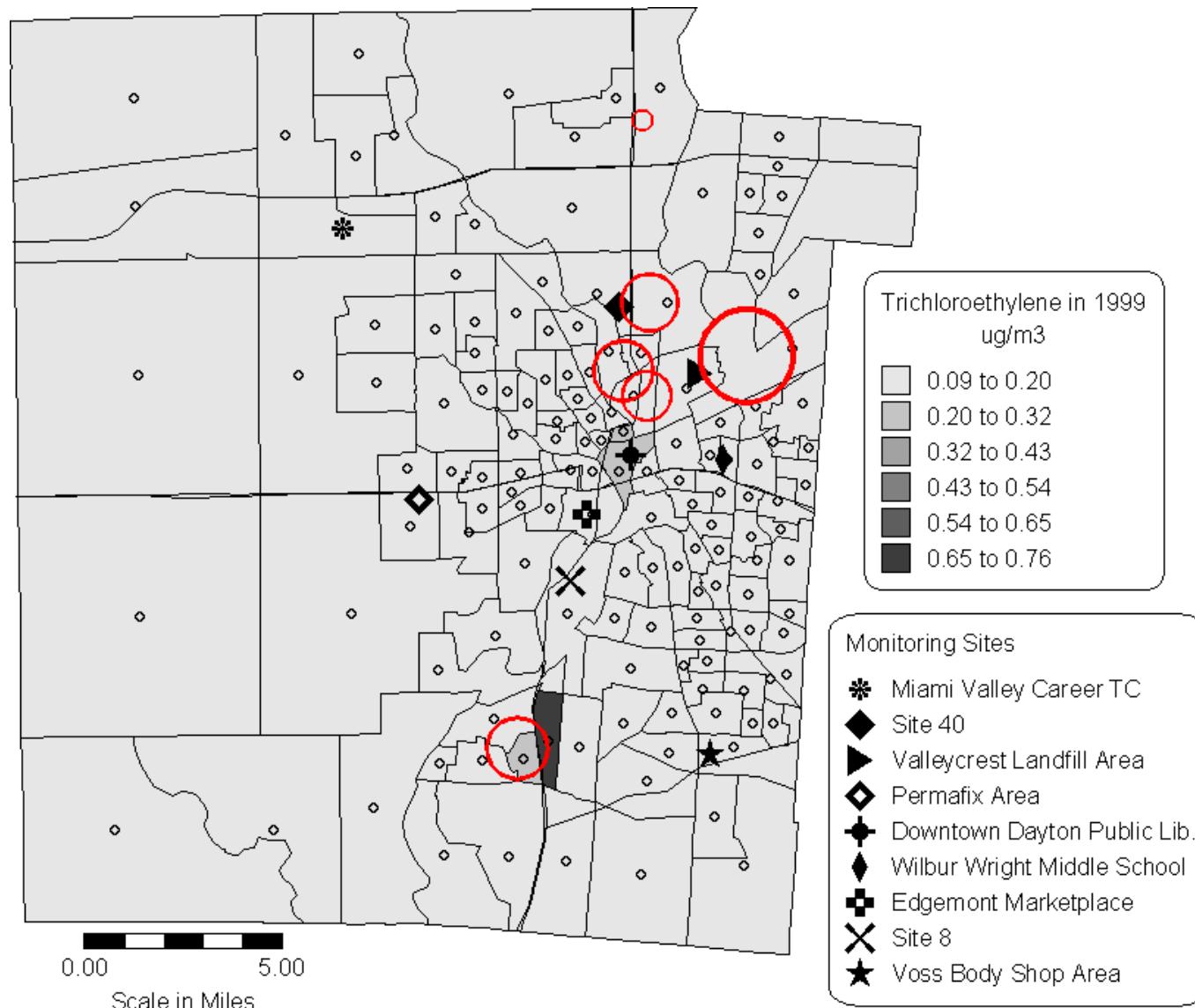
Methylene Chloride, 1999 draft v.3



Tetrachloroethene, 1999 draft v.3



Trichloroethene, 1999 draft v.3

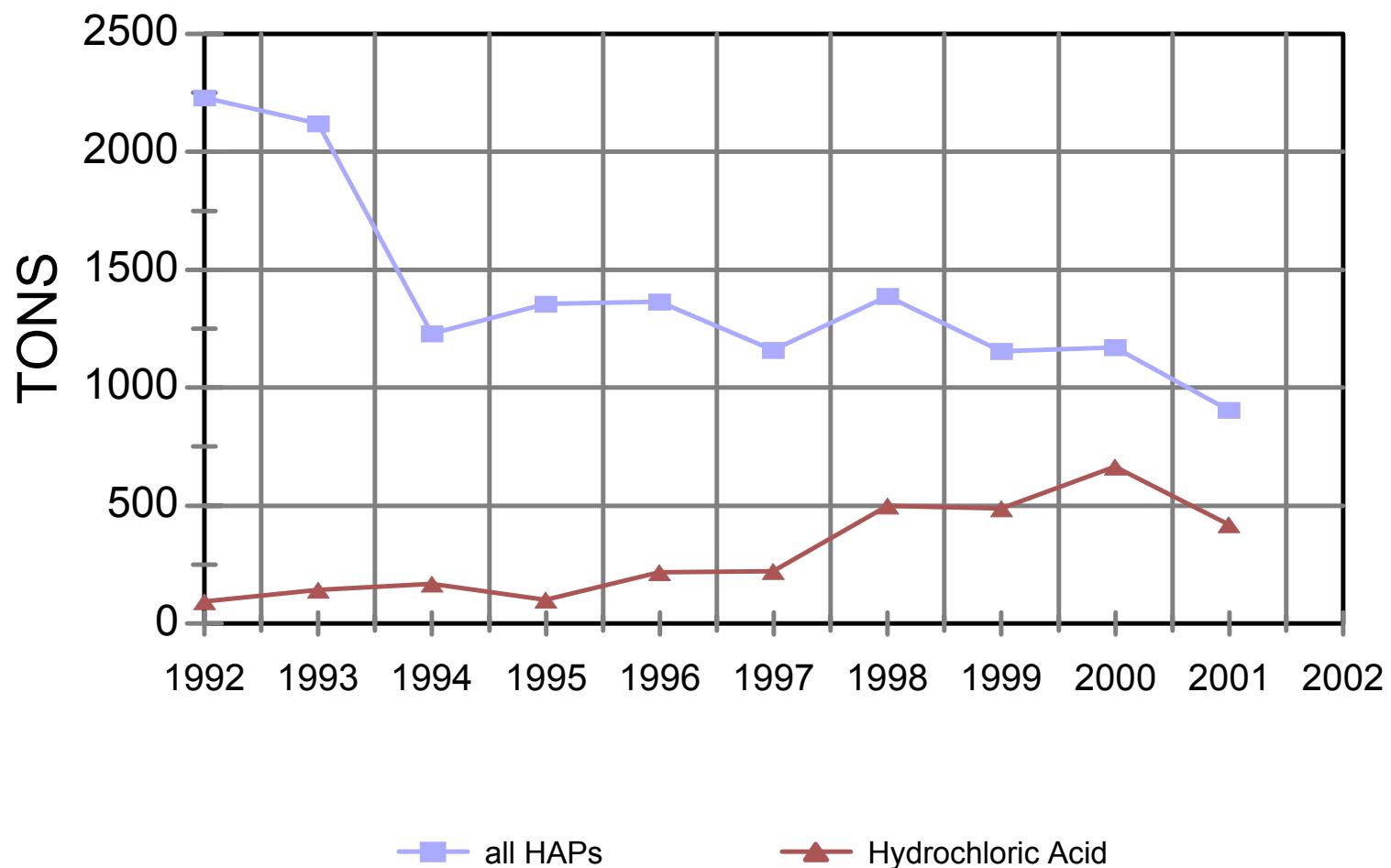


Site 40 TO-14A data, n = 8

	Measurement ug/m ³	October 1999 NATA Census Tract 080500
Benzene	0.91 ± 0.50	1.67
Methylene Chloride	0.38 ± 0.09	0.32
Tetrachloroethene	< 0.68	0.20
Trichloroethene	< 0.54	0.11

TRI HAPs

RAPCA Jurisdiction



Top Five TRI HAPs RAPCA Jurisdiction

1992	1992	2001	2001
Xylene	688 TPY	HCl	421 TPY
Toluene	420 TPY	Toluene	111 TPY
111-TCA	262 TPY	TCE	89 TPY
Methanol	184 TPY	Glycol ethers	79 TPY
Glycol ethers	182 TPY	MEK	39 TPY